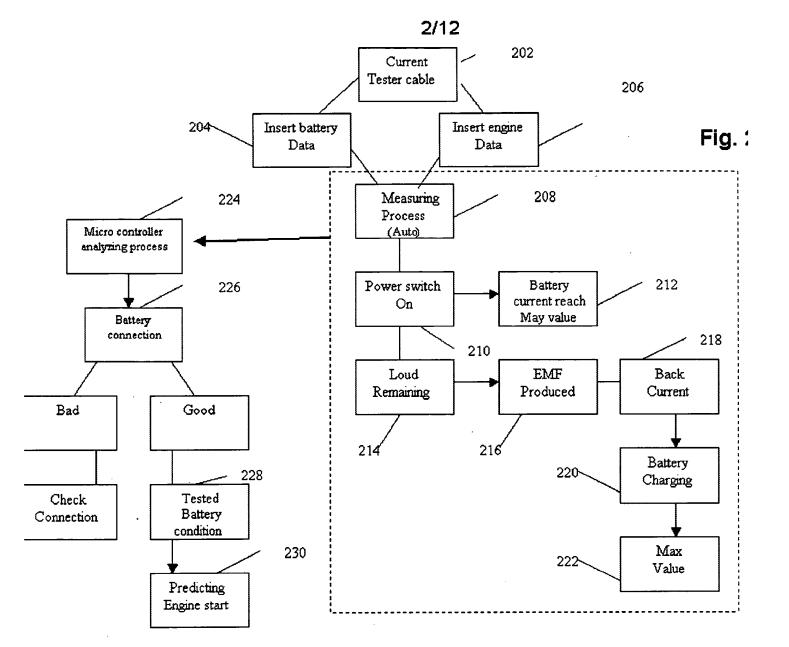


Fig.1

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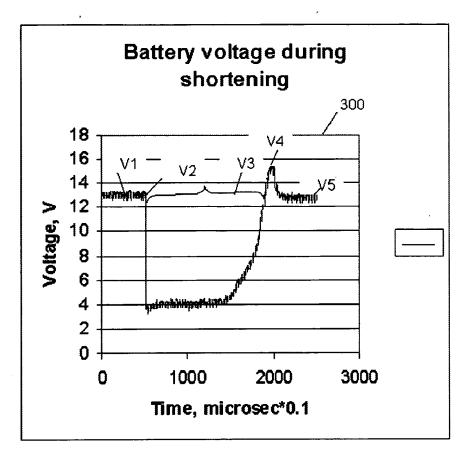


Fig. 3

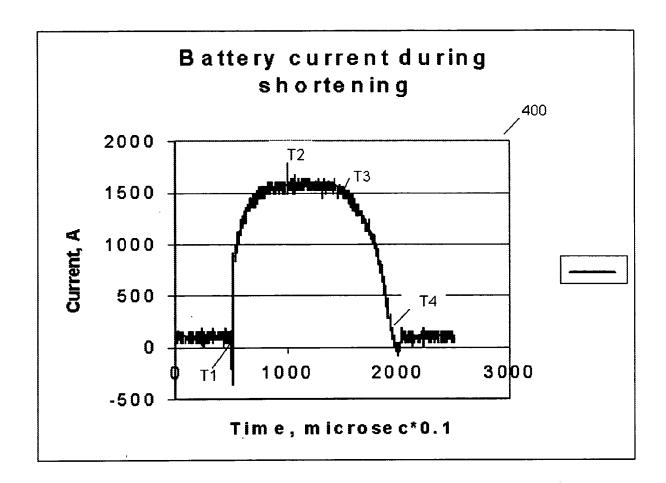
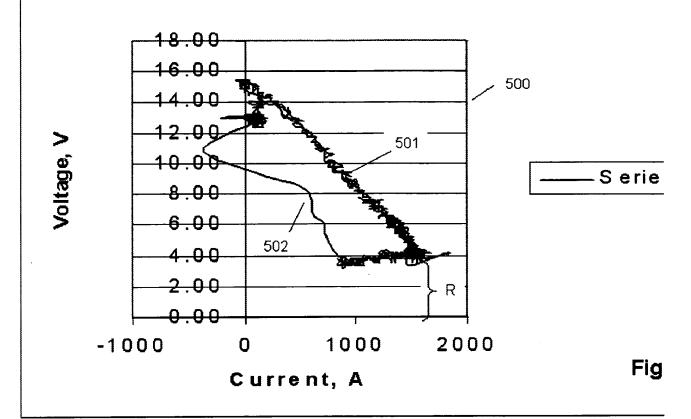
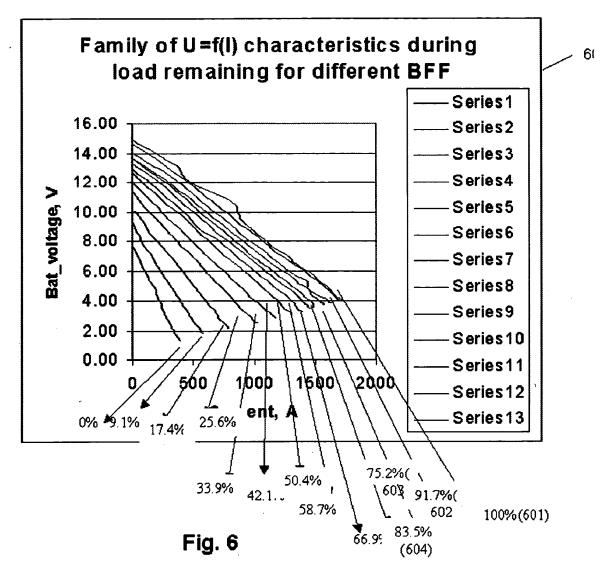


Fig. 4







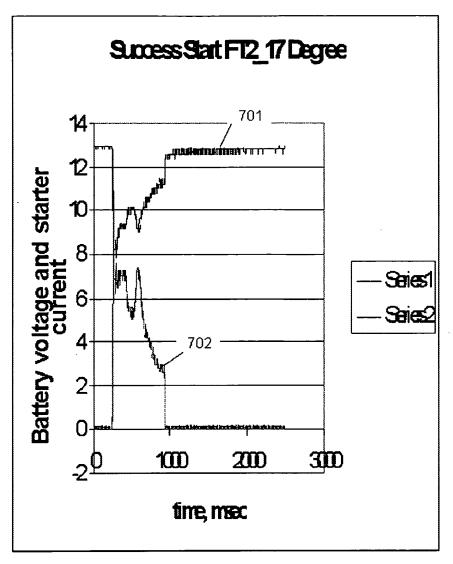
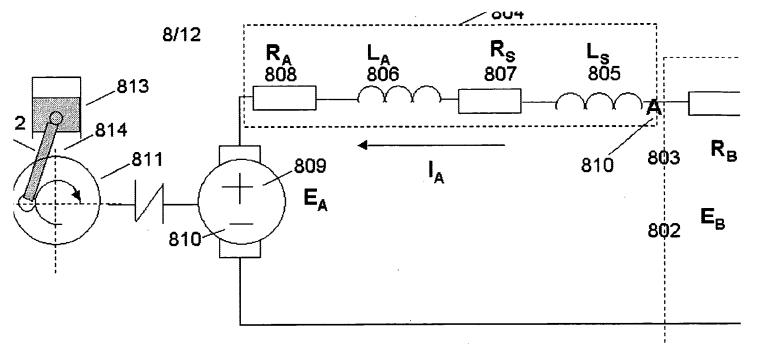


Fig. 7



(1)
$$E_B - I_A \cdot (R_A + R_S + R_B) - (L_A + L_S) \cdot \frac{dI_A}{dt} - E_A = 0$$

(2)
$$E_A = f(I_A) \cdot \frac{\omega_M}{\omega_{nom}}$$

(3)
$$\tau_{\rm M} = I_{\rm A} \cdot \frac{f(I_{\rm A})}{\omega_{\rm nom}} - \tau_{\rm friction}$$

(4)
$$J_{T} \cdot \frac{d\omega_{M}}{dt} = \tau_{M} - \tau_{R}$$
 Fig.8

(5)
$$\tau_{R} = f(\alpha_{M}, V_{E}, n_{C}, \theta)$$

Fig. 9A

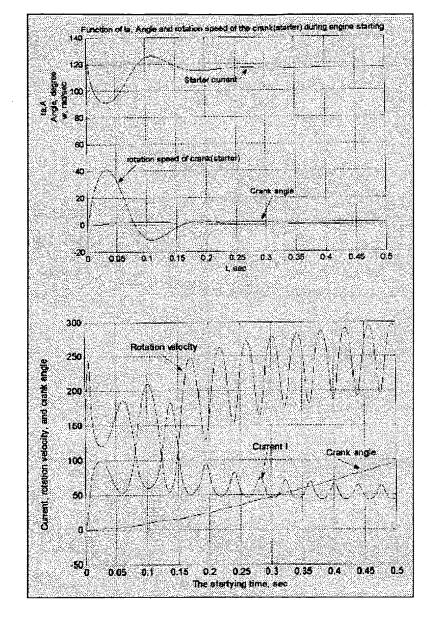
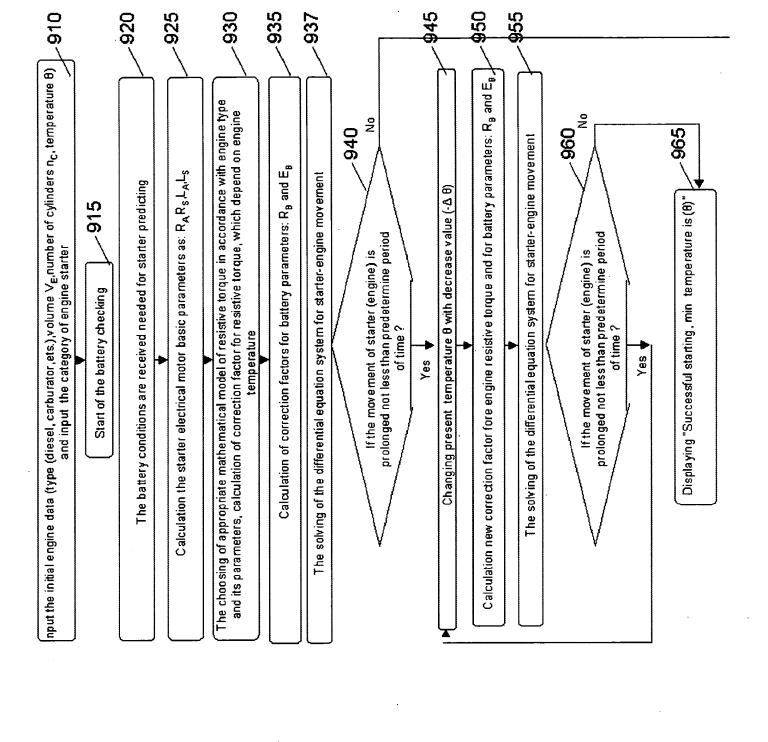


Fig. 9B



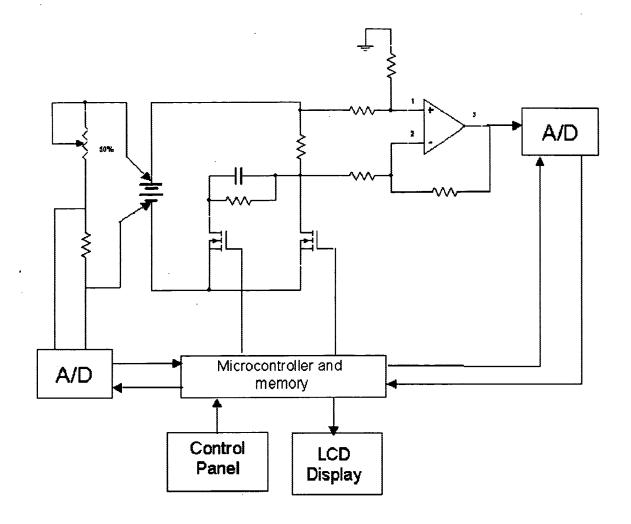


Fig. 11

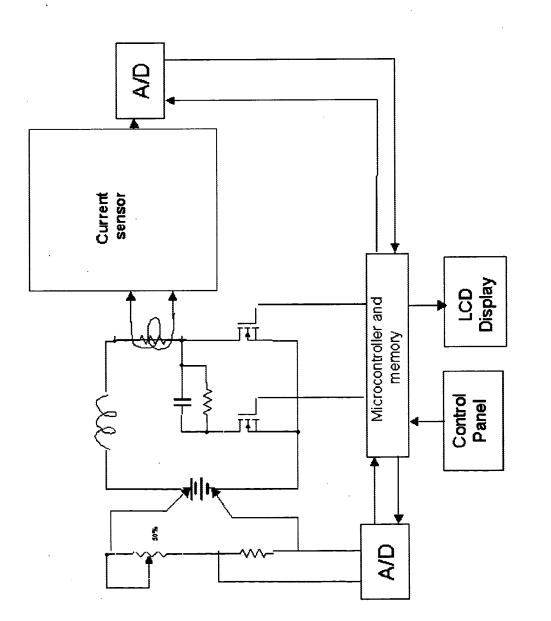


Fig. 12

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